

# UNITED STATES PATENT OFFICE.

AUGUST BÖCKEL, OF ERFURT, PRUSSIA, AND ERNST LOCHMANN, OF  
LEIPSIC, SAXONY, GERMANY.

## SLAT FOR ROLLING SHUTTERS.

SPECIFICATION forming part of Letters Patent No. 422,707, dated March 4, 1890.

Application filed October 21, 1889. Serial No. 327,683. (No model.)

*To all whom it may concern:*

Be it known that we, AUGUST BÖCKEL, of Erfurt, in the Kingdom of Prussia and German Empire, and ERNST LOCHMANN, of Leipzig, in the Kingdom of Saxony and German Empire, have invented new and useful Improvements in Slats for Rolling Shutters, of which the following is a specification.

The improved slat for rolling shutters constituting this invention, and which is also applicable for partition-curtains, coverings for hot-house roofs, seats for garden-chairs, and the like, has the advantage over similar devices heretofore in use, in that it admits of being made up in the form of a flexible chain-like web and is self-fixing instead of being held together by canvas, hinges, or like contrivances, the slats being fitted endwise one into another and being interchangeable.

In the accompanying drawings, Figure I is an end view of one of the slats. Fig. II is an end view showing a series of seven such slats fitted together in the form of an arc of a circle. Fig. III shows an elevation of part of a rolling shutter formed by the slats.

Each slat is formed on one of its longitudinal edges with a tongue or round bead *a*. The other side of the slat is enlarged, and is provided with a longitudinal groove *b*, formed between the curved lips *c* and *d*, the distance between the edges of said lips being less than

the diameter of the groove, the latter being formed on a somewhat greater circle than the bead *a*. This groove is adapted to receive, and the lips interlock with, the bead or tongue of a similarly-formed slat thrust endwise into it, while the requisite movement in the groove *b* is provided by making one of the lips at the mouth of the groove shorter than the other, thereby permitting the shutter to freely bend in one direction but not in the other direction.

The arrangement described presents not only great simplicity in manufacture but also permits of rapid and easy fitting together and ready replacement of damaged parts.

What we claim as new, and desire to secure by Letters Patent, is—

A slat for rolling shutters, formed with a round tongue or bead along one edge and an open groove along the other edge, the mouth of the groove being smaller than the interior, whereby the groove is adapted to hold and permit of movement within it of the tongue or bead of a like slat fitted endwise into it, substantially as set forth.

In witness whereof we have hereunto set our hands in presence of two witnesses.

AUGUST BÖCKEL.  
ERNST LOCHMANN.

Witnesses:

CARL BORNGRAEBER,  
THEODOR SCHUMANN.